

INTERNATIONAL SEARCH REPORT

International Application No
PCT/JP2004/011709

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07C17/383 C07C17/20 C07C17/354 C07C19/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BEILSTEIN Data, CHEM ABS Data, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/98240 A (SHOWA DENKO K.K; OHNO, HIROMOTO; KAGA, KAZUNARI; OHI, TOSHIO) 27 December 2001 (2001-12-27) page 5, line 21 - page 6, line 9 page 17, line 15 - page 18, line 28 page 23, line 14 - page 24, line 10; claims 1-19	1-3,5, 9-13, 16-19
X	US 2002/183568 A1 (OHNO HIROMOTO ET AL) 5 December 2002 (2002-12-05) paragraphs '0018!, '0072!, '0073! -/--	1-3,5, 9-13, 16-19

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

22 February 2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 03/014047 A (SHOWA DENKO K. K; OHNO, HIROMOTO; OHI, TOSHIO) 20 February 2003 (2003-02-20) page 15, line 35 - page 16, line 20 page 1, line 31 - page 2, line 9; claims 1-34; example 1 -----	1-19
P,Y	US 2003/157800 A1 (OHNO HIROMOTO ET AL) 21 August 2003 (2003-08-21) paragraph '0045!; claims 1-20 -----	1-19
Y	WO 02/18305 A (SHOWA DENKO K. K; OHNO, HIROMOTO; OHI, TOSHIO) 7 March 2002 (2002-03-07) page 2, line 21 - line 34 page 14, line 20 - line 35; claims 1-20 -----	1-19

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/JP2004/011709

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 0198240	A	27-12-2001	JP	2002003415 A	09-01-2002
			AU	7456101 A	02-01-2002
			WO	0198240 A2	27-12-2001
			TW	593219 B	21-06-2004
			US	2002183568 A1	05-12-2002
US 2002183568	A1	05-12-2002	JP	2002003415 A	09-01-2002
			AU	7456101 A	02-01-2002
			WO	0198240 A2	27-12-2001
			TW	593219 B	21-06-2004
WO 03014047	A	20-02-2003	JP	2003055278 A	26-02-2003
			JP	2003055277 A	26-02-2003
			CN	1464872 T	31-12-2003
			WO	03014047 A1	20-02-2003
			US	2004015022 A1	22-01-2004
US 2003157800	A1	21-08-2003	JP	2002069014 A	08-03-2002
			US	2004158109 A1	12-08-2004
			AU	8017901 A	13-03-2002
			CN	1438979 T	27-08-2003
			WO	0218305 A2	07-03-2002
WO 0218305	A	07-03-2002	JP	2002069014 A	08-03-2002
			AU	8017901 A	13-03-2002
			CN	1438979 T	27-08-2003
			WO	0218305 A2	07-03-2002
			US	2003157800 A1	21-08-2003
			US	2004158109 A1	12-08-2004